

Title (en)  
ELEVATOR APPARATUS

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
APPAREIL DE LEVAGE

Publication  
**EP 1396456 A1 20040310 (EN)**

Application  
**EP 01932256 A 20010524**

Priority  
JP 0104374 W 20010524

Abstract (en)  
An elevator device includes a car and a counterweight suspended by a main rope. The drive force of a driving machine is transmitted to the counterweight through a drive rope. Through ascent and descent of the counterweight, the car is caused to ascend and descend. The drive rope is wrapped around a plurality of counterweight sheaves mounted on the counterweight, an upper hoistway sheave arranged in the upper portion of the hoistway, and a lower hoistway sheave arranged in the lower portion of the hoistway. All the counterweight sheaves are arranged coaxially on the upper portion of the counterweight. <IMAGE>

IPC 1-7  
**B66B 11/08**

IPC 8 full level  
**B66B 7/06** (2006.01); **B66B 11/00** (2006.01)

CPC (source: EP)  
**B66B 11/0055** (2013.01); **B66B 11/009** (2013.01)

Cited by  
EP2492232A1; CN102229397A; EP3401265A3

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DOCDB simple family (publication)  
**EP 1396456 A1 20040310; EP 1396456 A4 20041027; EP 1396456 B1 20080109**; CN 1270957 C 20060823; CN 1440363 A 20030903; DE 60132372 D1 20080221; DE 60132372 T2 20081224; JP WO2002094701 A1 20040909; WO 02094701 A1 20021128

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**EP 01932256 A 20010524**; CN 01812049 A 20010524; DE 60132372 T 20010524; JP 0104374 W 20010524; JP 2002580696 A 20010524